

UNITED STATES DEPARTMENT OF AGRICULTURE
Rural Utilities Service
Technical Standards Committee "A"

Supplement No. 3, April 2003 to
RUS Informational Publication 202-1,
List of Materials Acceptable for Use on
Systems of RUS Electrification Borrowers

The attached pages dated April 2004, for the "List of Materials Acceptable for Use on Systems of RUS Electrification Borrowers" are those which have been revised by action of the Technical Standards Committees during the months of January through March, 2004. They replace pages dated July and October 2003 and January 2004. The following changes should be made in order to keep RUS Informational Publication 202-1 up to date.

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Old Page

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k(2) Cond.:k(2.1) Cond.
av-6:av(1) Cond.

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New Page

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k(2) Cond.:k(2.1) Cond.
av-6:av(1) Cond.

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a - Insulators, pin type (polymer)

Manufacturer	Conditions
Hendrix* HPI-15, 12.5/7.2 kV, ANSI Class 55-3 HPI-15-F, 12.5/7.2 kV, ANSI Class 55-4 HPI-25-J-02, 24.9/14.4 kV, ANSI Class 56-1	To obtain experience.

*Does not have metal thimble.

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k - Insulator, polymer distribution deadend

Manufacturer	Conditions
<u>Dulmison</u> Distribution deadend H-15 kV-4 H-25 kV-6	1. To obtain experience. 2. For use as deadends on distribution lines only. 3. Not recommended for use in areas subject to contamination.
<u>GLP</u> DS-15 (15 kV) DS-28 (25 kV)	1. Same as (1) above. 2. Same as (2) above. 3. Same as (3) above.
<u>Hubbell (Ohio Brass)</u> "Veri*Lite" Type PDI-15 (15 kV) Type PDI-25 (25 kV) Type PDI-35 (35 kV)	1. Same as (1) above. 2. Same as (2) above. 3. Same as (3) above.
<u>K-Line</u> Distribution deadend KL-15ASCTM (15 kV line-to-line) KL-28ASCTM (25 kV line-to-line) KL-35SCTM (35 kV line-to-line)	1. Same as (1) above. 2. Same as (2) above. 3. Same as (3) above.
<u>MacLean (Reliable)</u> DS-15G (15 kV) DS-15M (15 kV) (metal end fittings) DS-25G (25 kV) DS-28M (25 kV) (metal end fittings) DS-35G (35 kV) DS-35M (35 kV) (metal end fittings)	1. Same as (1) above. 2. Same as (2) above. 3. Same as (3) above.
<u>Porcelain Products</u> Distribution deadend PDEI-15, 15 kV PDEI-25, 25 kV	1. Same as (1) above. 2. Same as (2) above. 3. Same as (3) above.

NOTE: When insulators from this page are used, adjust construction drawing material list quantities as necessary. Recommended maximum working load is 5,000 lbs.

Conditional List
k(2.1)
July 2003

k - Insulator, polymer distribution deadend

Manufacturer	Conditions
<u>Salisbury</u>	
Distribution deadend	1. To obtain experience.
9501 Series, 15 kV	2. For use as deadends on distribution lines only.
9502 Series, 25 kV	3. Not recommended for use in areas subject to contamination.
9501U-SI (silicone - 15 kV)	
9502U-SI (silicone - 28 kV)	
9503U-SI (silicone - 35 kV)	
9502L-EP (EPDM - 28 kV)	
<u>Sediver</u>	
Distribution deadend	1. Same as (1) above.
ODI-11-70-15 (15 kV)	2. Same as (2) above.
ODI-15-70-28 (25 kV)	3. Same as (3) above.
ODI-17-70-35 (35 kV)	
<u>Victor Insulators, Inc.</u>	
Distribution deadend	1. Same as (1) above.
8015 (15kV)	2. Same as (2) above.
8025 (25kV)	3. Same as (3) above.
8035 (35kV)	
8215 (15kV)	
8225 (25kV)	
8235 (35kV)	
<u>Volt Tek</u>	
Distribution deadend	1. Same as (1) above.
1515-00 (15 kV)	2. Same as (2) above.
2515-00 (25 kV)	3. Same as (3) above.

NOTE: When insulators from this page are used, adjust construction drawing material list quantities as necessary. Recommended maximum working load is 5000 lbs.

av - Conductor, Aluminum Alloy

Applicable Specification: ASTM Specification B399

Preferred Sizes:

DISTRIBUTION		TRANSMISSION	
6201	ACSR Equiv.	6201	ACSR Equiv.
48,690 cmil - 7 str.*	4	123,300 cmil - 7 str.**	1/0
77,470 cmil - 7 str.*	2	155,400 cmil - 7 str.**	2/0
123,300 cmil - 7 str.	1/0	195,700 cmil - 7 str.**	3/0
155,400 cmil - 7 str.	2/0	246,900 cmil - 7 str.	4/0
195,700 cmil - 7 str.	3/0	312,800 cmil - 19 str.	266,800 cmil
246,900 cmil - 7 str.	4/0	394,500 cmil - 19 str.	336,400 cmil
		559,500 cmil - 19 str.	477,000 cmil
		652,400 cmil - 19 str.	556,500 cmil
		927,200 cmil - 37 str.	795,000 cmil

*Not recommended for multiphase lines with span lengths exceeding 300 ft.

**Not recommended for suspension type construction.

The following manufacturers have shown compliance with the applicable specifications:

<u>Manufacturer</u>	<u>Type</u>
Alcan	6201
General Cable	6201
Southwire	6201

av - conductor

Manufacturer	Conditions
<u>Alcan Cable</u> Duplex type, with ACSR or AAAC (6201) conductors using preferred conductor sizes.	1. To obtain experience. 2. Conductor handling and installation shall be in accordance with manufacturer's recommendations.
<u>Copperweld Southern</u> Alumoweld-aluminum 6/1 ACSR/AW, 2, 1/0, 2/0, 4/0 4/3 AWAC, 4, 2, 1/0	1. To obtain experience.
<u>General Cable</u> T-2 type, with ACSR or AAAC (6201) conductors using preferred conductor sizes.	1. To obtain experience. 2. Conductor handling and installation shall be in accordance with manufacturer's recommendations.
ACSR/TW, ACSS or ACSS/TW conductors using preferred conductor sizes.	1. To obtain experience. 2. Conductor handling and installation shall be in accordance with manufacturer's recommendations. 3. Indicate type of steel core wire and class (if applicable) of coating.
<u>Nexans Canada</u> ACSR-II (T-2) type, with ACSR conductors using preferred conductor sizes	1. To obtain experience. 2. Conductor handling and installation shall be in accordance with manufacturer's recommendations.
<u>Southwire</u> VR type, with ACSR or AAAC (6201) conductors using preferred conductor sizes.	1. To obtain experience. 2. Conductor handling and installation shall be in accordance with manufacturer's recommendations.